EZP1 Stainless Steel Precleaner with White ConShear™ Blade

Installation, Operation and Maintenance Manual

FLEXCO

EZP1 Stainless Steel Precleaner with White ConShear™ Blade

Serial Number: _____

Purchase Date:_____

Purchased From: _____

Installation Date: _____

Serial number information can be found on the Serial Number Label included in the Information Packet found in the cleaner carton.

This information will be helpful for any future inquiries or questions about belt cleaner replacement parts, specifications or troubleshooting.

Table of Contents

Section 1 – Important Information

1.1 General Introduction

We at Flexco are very pleased that you have selected an EZP1 Stainless Steel Precleaner with White ConShear™ Blade for your conveyor system.

This manual will help you to understand the operation of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips.

If, however, you have any questions or problems that are not covered, please contact your field representative or our Customer Service Department.

Visit www.flexco.com for other Flexco locations and products.

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this cleaner. While we have tried to make the installation and service tasks as easy and simple as possible**, it does however require correct installation and regular inspections and adjustments to maintain top working condition.**

1.2 User Benefits

Correct installation and regular maintenance will provide the following benefits for your operation:

- Reduced conveyor downtime
- Reduced man-hour labor
- Lower maintenance budget costs
- Increased service life for the belt cleaner and other conveyor components

1.3 Service Option

The EZP1 Stainless Steel Precleaner with White ConShear Blade is designed to be easily installed and serviced by your on-site personnel. However, if you would prefer complete turn-key factory service, please contact your local Flexco Field Representative.

Section 2 – Safety Considerations and Precautions

Before installing and operating the EZP1 Stainless Steel Precleaner with White ConShear™ Blade, it is important to review and understand the following safety information.

There are set-up, maintenance and operational activities involving both **stationary** and **operating** conveyors. Each case has a safety protocol.

2.1 Stationary Conveyors

The following activities are performed on stationary conveyors:

- Installation
- Tension adjustments
- Blade replacement
- Cleaning
- Repairs

⚠ DANGER

It is imperative that OSHA/MSHA Lockout/Tagout (LOTO) regulations, 29 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

Before working:

- Lockout/Tagout the conveyor power source.
- Disengage any takeups.
- Clear the conveyor belt or clamp securely in place.

⚠ WARNING

Use Personal Protective Equipment (PPE):

- Safety eyewear
- Hardhats
- Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull. PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

2.2 Operating Conveyors

There are two routine tasks that must be performed while the conveyor is running:

- Inspection of the cleaning performance.
- Dynamic troubleshooting.

⚠ DANGER

Every belt cleaner is an in-running nip hazard. Never touch or prod an operating cleaner. Cleaner hazards cause instantaneous amputation and entrapment.

⚠ WARNING

Never adjust anything on an operating cleaner. Unforseeable belt projections and tears can catch on cleaners and cause violent movements of the cleaner structure. Flailing hardware can cause serious injury or death.

⚠ WARNING

Belt cleaners can become projectile hazards. Stay as far from the cleaner as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

Section 3 – Pre-installation Checks and Options

3.1 Checklist

- Check that the cleaner size is correct for the beltline width.
- Check the belt cleaner carton and make sure all the parts are included.
- Review the "Tools Needed" list on the top of the installation instructions.
- Check the conveyor site:
  - Will the cleaner be installed on a chute?
  - Is the install on an open head pulley requiring mounting structure?
  - Are there obstructions that may require cleaner location adjustments? (see 3.2 - Cleaner Location Adjustments)

Section 3 – Pre-installation Checks and Options

3.2 Cleaner Location Adjustments

In certain applications it is necessary to modify the location of the precleaner pole due to permanent obstacles that obstruct the desired location. Relocating the pole location can be done easily and does not hinder the performance of the cleaner as long as the "C" dimension is maintained.

NOTE: In the following example we will be lowering the pole location in the "Y" direction, but the same method could also be applied in the "X" direction.

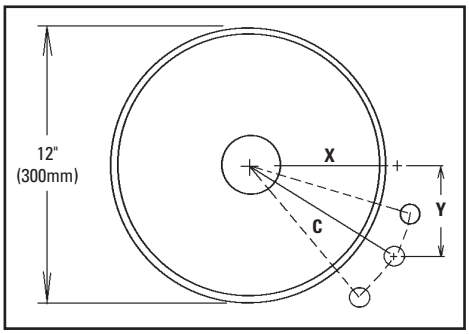
Conveyor situation:

Pulley Diameter: 12" (300mm)

X = 6 1/8" (155mm)

Y = 5 1/2" (140mm)

C = 8 1/4" (210mm)



1. **Determine the given location dimensions and define the change needed.** After laying out the given X & Y dimensions, determine the distance of the modification required for adequate clearance of the pole and tensioning system. (In the example we decide to lower the pole 2" (50mm) to clear the support structure).

2. **Write down known dimensions.** We can now determine two of the three required dimensions which will allow us to find the third. We know we cannot alter the "C" dimension, so this will remain the same. Also we are required to lower the unit in the "Y" dimension 2" (50mm), so we add 2" (50mm) to the given "Y" dimension.

   X = ?

   Y = 5 1/2 + 2 = 7 1/2" (140 + 50 = 190mm)

   C = 8 1/4" (210mm)

3. **Determine final dimension.** On a flat vertical surface, using a level, draw one horizontal line and one vertical line, creating a right triangle (Fig 3a). Measure down from the intersection the determined "Y" dimension and mark (Fig 3b). With the tape measure starting at the modified "Y" mark, swing the tape across the "X" line and mark at the "C" dimension where it crosses the "X" line (Fig 3c). Measure from the intersection to the "C" intersection and this will be your new "X" dimension (Fig. 3d).

   X = 3 1/2" (89mm)

   Y = 7 1/2" (190mm)

   C = 8 1/4" (210mm)

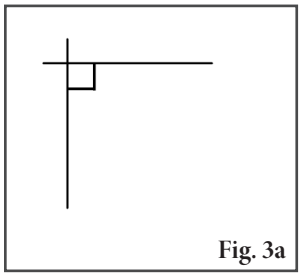


Fig. 3a

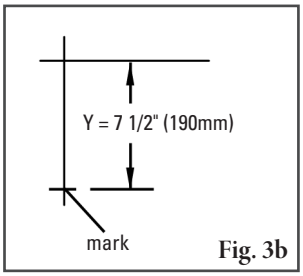


Fig. 3b

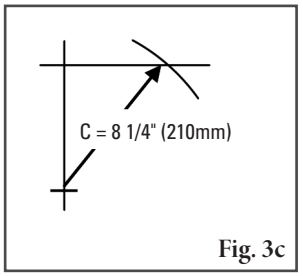


Fig. 3c

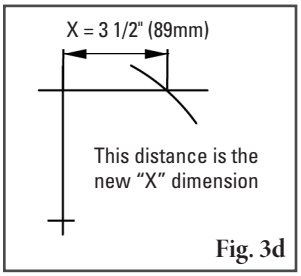
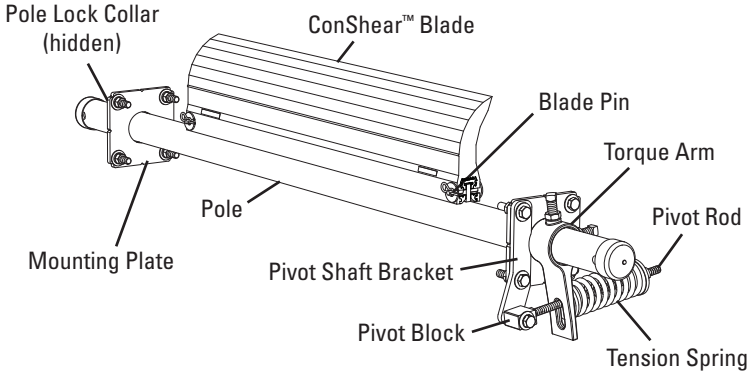


Fig. 3d

Section 4 – Installation Instructions

4.1 EZP1 Stainless Steel Precleaner

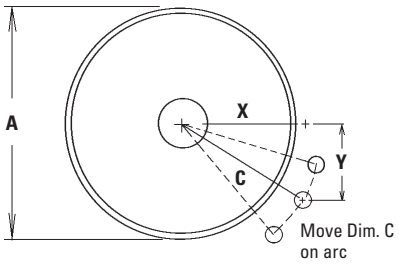


EZP1 Stainless Steel Precleaner Parts List

PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.

Tools Needed:

- (x2) 1-1/2" (38mm) Wrench **OR** Large Adjustable/ Crescent Wrench
- Torch or welder (as needed)
- Tape Measure
- Level
- Marking pen or soapstone
- Wire brush & small putty knife (for cleaning pole)



A = Pulley Diameter + Lagging and Belt
C = Critical Spec to move location if necessary

Pole Location Specs

Pole Location Chart

A		X		Y		C	
in.	mm	in.	mm	in.	mm	in.	mm
10	250	3	74	9	230	9 1/2	242
11	275	3 3/4	92	9	230	9 3/4	248
12	300	4 3/8	108	9	230	10	254
13	325	5 3/8	131	9	230	10 1/2	265
14	350	5 7/8	146	9	230	10 3/4	273
15	375	6 3/8	166	9	230	11 1/4	284
16	400	7 1/8	179	9	230	11 1/2	291
17	425	7 7/8	195	9	230	12	301
18	450	8 1/4	207	9	230	12 1/4	309
19	475	9	223	9	230	12 3/4	320
20	500	9 3/8	235	9	230	13	329
21	525	10	249	9	230	13 1/2	339
22	550	10 3/4	266	9	230	14	352
23	575	11 3/8	283	9	230	14 1/2	365
24	600	12	299	9	230	15	377
25	625	12 5/8	314	9	230	15 1/2	390
26	650	13 1/4	330	9	230	16	402
27	675	13 7/8	346	9	230	16 1/2	415
28	700	14 3/8	360	9	230	17	427
29	725	15	374	9	230	17 1/2	439
30	775	15 5/8	389	9	230	18	452
31	775	16 1/8	403	9	230	18 1/2	464
32	825	16 3/4	417	9	230	19	477
33	825	17 1/4	432	9	230	19 1/2	489
34	850	17 7/8	446	9	230	20	501
35	875	18 3/8	460	9	230	20 1/2	514
36	900	19	474	9	230	21	526

1. **Locate the correct pole position.** Measure and determine Dimension A (see instructions above). Find Dimension A on the Pole Location Chart at right and determine Dimensions X, Y and C. Measure out horizontally from the center of the pulley shaft Dim. X and mark. From that mark, draw a long vertical line down, then measure and mark Dim. Y. This indicates the location of the center of the cleaner pole. Measure and mark both sides.

   NOTE: If the location is obstructed, use Dim. C and move on an arc from the center of the pulley shaft to find an open position. Dim. C must remain constant to correctly locate the pole (see drawing above).

   NOTE: For open head installs, first add mounting support materials to the structure.

Section 4 – Installation Instructions

4.1 EZP1 Stainless Steel Precleaner

2. **Mark and cut the mounting plate holes.** Using the mounting plate template provided in the instruction packet, position the large pole access hole on the chute, aligning the hole notches with the layout lines. Position the keyway toward the pulley. Trace the pole cutout and mounting holes (Fig. 1). Cut the holes on both sides of the chute.

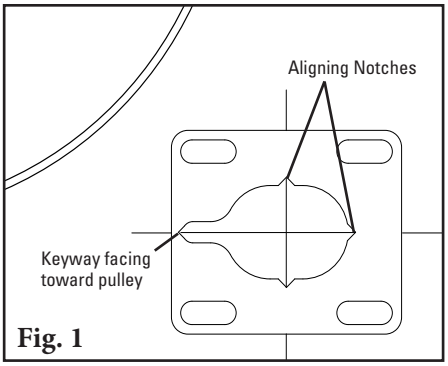


Fig. 1

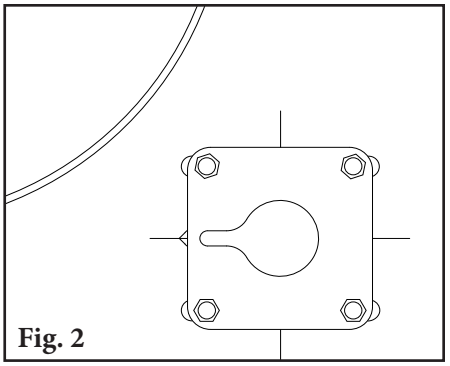


Fig. 2

NOTE: Hole cutouts are slotted for later adjustment if needed.

3. **Install the mounting plates.** Bolt the mounting plates to the chute with bolts provided. Center plates on the slotted holes and tighten bolts (Fig. 2).

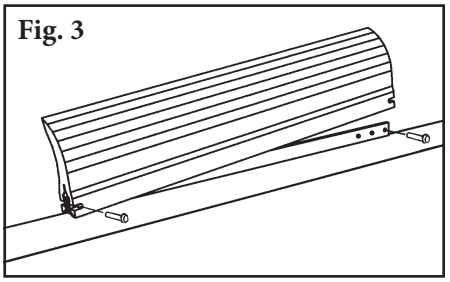


Fig. 3

4. **Install the pole.** Remove both blade pins and blade from the pole (Fig. 3) and insert the pole in through the mounting plates (Fig. 3a).

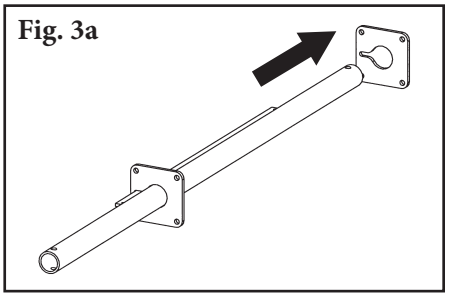


Fig. 3a

5. **Center the cleaner on the belt and lock in place.** Reinstall the blade with both blade pins. Center the blade on the belt and install the pole lock collar onto the pole (on the end opposite the end to be used for the tensioner), snugly up to the mounting plate (Fig. 4). Rotate the blade up to the belt and check to insure that the blade is square to the pulley face. If not, loosen a mounting plate on one side and adjust the plate forward or backward to square the blade to the pulley, and retighten the bolts (Fig. 4a).

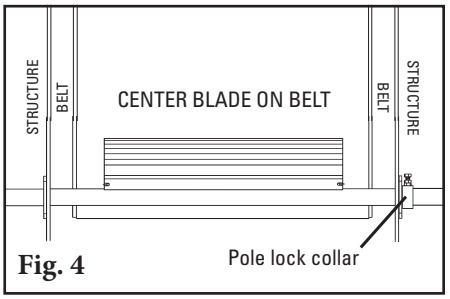


Fig. 4

NOTE: The tensioner is assembled for installation on the left side (facing the head pulley) of the cleaner. If right side installation is desired, minor reassembly is required. For step-by-step instructions, see the EST Tensioner Card included with the tensioner parts.

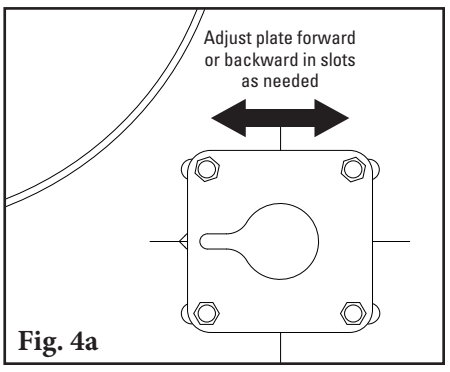


Fig. 4a

Section 4 – Installation Instructions

4.1 EZP1 Stainless Steel Precleaner

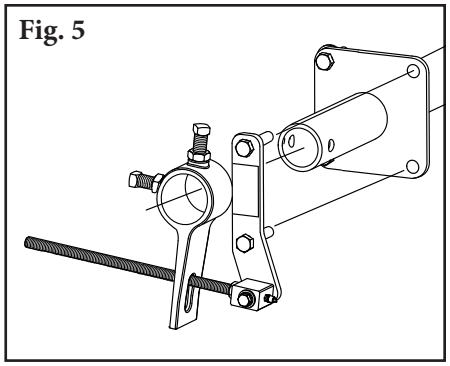
6. **Install the spring tensioner.** Determine the desired side and position (the tensioner can be installed in any position 360° around the pole) and remove the two mounting plate bolts needed to install the pivot shaft bracket. With the pivot rod inserted through the slotted hole of the torque arm, slide the two components onto the pole together. Using the long bolts provided, fasten the pivot shaft bracket to the mounting plate and tighten (Fig. 5).

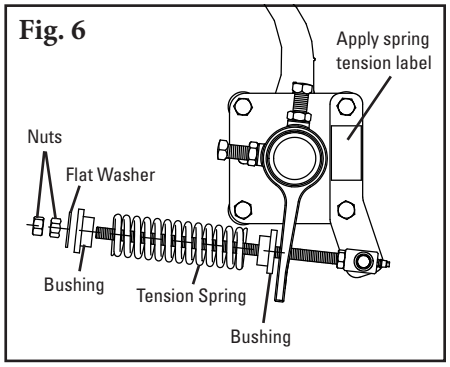
7. **Set the blade tension.** Assemble the tensioner by sliding the spring with bushings onto the pivot rod, followed by the washer, and two adjusting nuts (Fig. 6). Thread nuts onto the pivot rod to expose 1" (25 mm) of the end. Rotate the pole until the blade contacts the pulley. While pulling the torque arm up to the spring, tighten the torque arm to the pole and turn the adjusting nuts until the required spring length is achieved. Tighten the jam nut. Apply the spring tension label (provided in the instruction packet) to the pivot shaft bracket as shown.

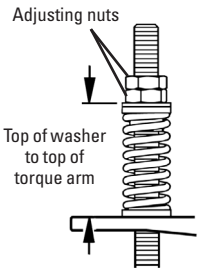
8. **Confirm correct pole location.** After the cleaner is installed, slide the Pole Location Gauge (provided in the instruction packet) between the cleaner pole and the pulley, until it stops at a step (Fig. 7). Read the flat area where the pole is resting (Fig. 7a). This diameter should be equal to Dim. A used in Step 1.

   NOTE: If the diameter reading on the Pole Location Gauge does not read the same as in Step 1, check the "C" dimension and correct accordingly.

   Test run the cleaner. Run the conveyor for at least 15 minutes and inspect the cleaning performance. Check the spring length for proper tensioning. Make adjustments as necessary.



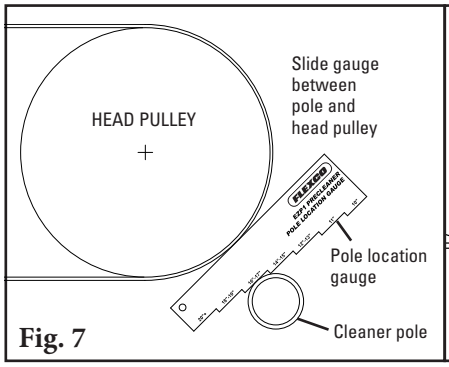


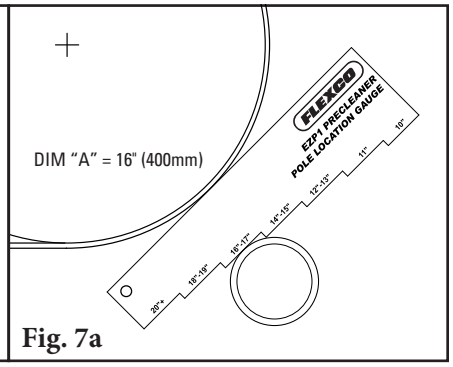


EST Spring Length Chart

Blade Width		Purple Springs		White Springs		Gold Springs	
in.	mm	in.	mm	in.	mm	in.	mm
10	250	5 5/8	143	6 3/8	162	N/A	N/A
16	400	5	127	6 1/8	156	N/A	N/A
22	550	4 3/8	111	6	152	N/A	N/A
28	700	3 7/8	98	5 7/8	149	N/A	N/A
34	850	N/A	N/A	5 5/8	143	6 1/8	156
40	1000	N/A	N/A	5 1/2	140	6	152
46	1150	N/A	N/A	5 1/4	133	5 7/8	149
52	1300	N/A	N/A	5 1/8	130	5 7/8	149
58	1450	N/A	N/A	5	127	5 3/4	146
64	1600	N/A	N/A	4 3/4	121	5 5/8	143

Shading indicates preferred spring option.





Section 5 – Pre-Operation Checklist and Testing

5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly.
- Add pole caps.
- Apply all supplied labels to the cleaner.
- Check the blade location on the belt.
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area.

5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance.
- Check the tensioner spring for recommended length (proper tensioning).
- Make adjustments as necessary.

  NOTE: Observing the cleaner when it is running and performing properly will help to detect problems or when adjustments are needed later.

Section 6 – Maintenance

Flexco belt cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the cleaner is installed a regular maintenance program should be set up. This program will ensure that the cleaner operates at optimal efficiency and problems can be identified and fixed before the cleaner stops working.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The EZP1 Stainless Steel Precleaner with White ConShear™ Blade operates at the discharge end of the conveyor and is in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and by observing the correct lockout/tagout procedures.

6.1 New Installation Inspection

After the new cleaner has run for a few days a visual inspection should be made to ensure the cleaner is performing properly. Make adjustments as needed.

6.2 Routine Visual Inspection (every 2-4 weeks)

A visual inspection of the cleaner and belt can determine:

- If the spring length is the correct length for optimal tensioning.
- If the belt looks clean or if there are areas that are dirty.
- If the blade is worn out and needs to be replaced.
- If there is damage to the blade or other cleaner components.
- If fugitive material is built up on the cleaner or in the transfer area.
- If there is cover damage to the belt.
- If there is vibration or bouncing of the cleaner on the belt.
- If a snub pulley is used, a check should be made for material buildup on the pulley.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for cleaner maintenance.

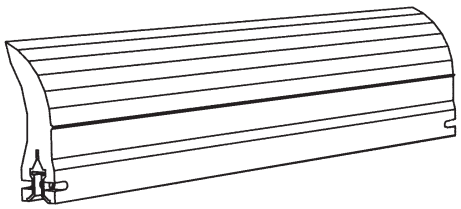
6.3 Routine Physical Inspection (every 6-8 weeks)

When the conveyor is not in operation and properly locked and tagged out a physical inspection of the cleaner to perform the following tasks:

- Clean material buildup off of the cleaner blade and pole.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Check both blade pins for proper installation and condition. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- Check the tension of the cleaner blade to the belt. Adjust the tension if necessary using the chart on the cleaner or the one on page 10.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

Section 6 – Maintenance

6.4 Blade Replacement Instructions



ConShear™ Replacement Blade

Tools Needed:

- (2) 1-1/2" (38mm) Wrench
  OR (2) Large Adjustable/Crescent Wrench
- Tape Measure
- Wire Brush (for cleaning pole)
- Small Putty Knife (for cleaning pole)

PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.

1. **Remove the tension.** Loosen the adjusting nuts on both sides and turn them out until they are flush with ends of the pivot arms (Fig. 1). This releases the tension of the blade on the belt.

2. **Remove the worn blade.** Remove blade pins and remove the blade from the pole (Fig. 2). Clean all fugitive material from the pole.

   NOTE: If blade is hard to remove use a screwdriver or hammer to loosen it and then remove.

3. **Install the new blade.** Slide the new blade onto the pole, locking it into the far blade pin, then reinstall the opposite blade pin, washer, and clip.

4. **Reset the correct blade tension.** Refer to the chart for the spring length required for the belt width. Lightly pull the pivot arm toward the end of the torque arm slot nearest the pole and turn the adjusting nuts until the required spring length is achieved. Tighten the jam nut.

   NOTE: The chart is also on the cleaner's pivot shaft bracket for future reference for retensioning maintenance.

   Test run the cleaner. Run the conveyor for at least 15 minutes and inspect the cleaning performance. Check the spring length for proper tensioning. Make adjustments as necessary.

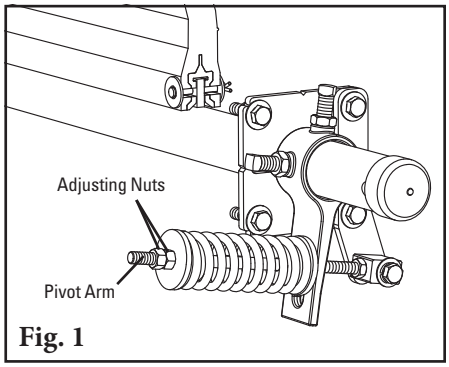


Fig. 1

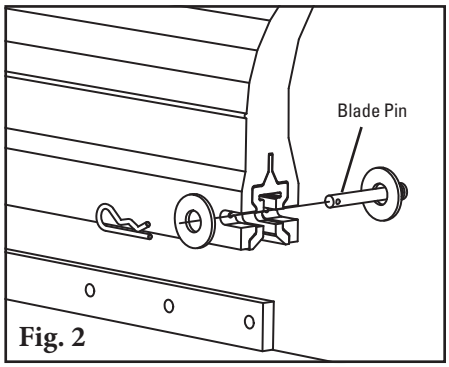
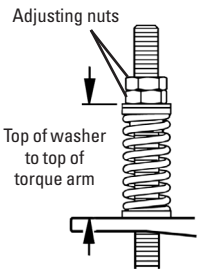


Fig. 2



EST Spring Length Chart

Blade Width		Purple Springs		White Springs		Gold Springs	
in.	mm	in.	mm	in.	mm	in.	mm
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22	550	4 3/8	111	6	152	N/A	N/A
28	700	3 7/8	98	5 7/8	149	N/A	N/A
34	850	N/A	N/A	5 5/8	143	6 1/8	156
40	1000	N/A	N/A	5 1/2	140	6	152
46	1150	N/A	N/A	5 1/4	133	5 7/8	149
52	1300	N/A	N/A	5 1/8	130	5 7/8	149
58	1450	N/A	N/A	5	127	5 3/4	146
64	1600	N/A	N/A	4 3/4	121	5 5/8	143

Shading indicates preferred spring option.

Section 6 – Maintenance

6.5 Maintenance Log

Conveyor Name/No. _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Date: _____ Work done by: _____ Service Quote #: _____

Activity: _____

Section 6 – Maintenance

6.6 Cleaner Maintenance Checklist

Site: _____ **Inspected by**: _____ **Date:** _____

Belt Cleaner: _____ **Serial Number:** _____

Blade Width: ☐ Belt minus 2" (50mm) ☐ Belt minus 8" (200mm)

Beltline Information:

Beltline Number: _____ Belt Condition: _____

Belt Width: ☐ 300mm (12") ☐ 450mm (18") ☐ 600mm (24") ☐ 750mm (30") ☐ 900mm (36") ☐ 1050mm (42") ☐ 1200mm (48") ☐ 1350mm (54") ☐ 1500mm (60") ☐ 1800mm (72")

*Head Pulley Diameter (Belt & Lagging):*_____ Belt Speed:_____ fpm Belt Thickness: _____

Belt Splice:_____ Condition of Splice:_____ Number of Splices:_____ ☐ Skived ☐ Unskived

Material conveyed: _____

Days per week run:_____ Hours per day run:_____

Blade Life:

Date blade installed:_____ Date blade inspected:_____ Estimated blade life:_____

Is blade making complete contact with belt? ☐ Yes ☐ No

Distance from wear line: Left _____ Middle _____ Right _____

Blade condition: ☐ Good ☐ Grooved ☐ Smiled ☐ Not contacting belt ☐ Damaged

Measurement of spring: Required _____ Currently _____

Was Cleaner Adjusted: ☐ Yes ☐ No

Pole Condition: ☐ Good ☐ Bent ☐ Worn

Lagging: ☐ Side Lag ☐ Ceramic ☐ Rubber ☐ Other ☐ None

Condition of lagging: ☐ Good ☐ Bad ☐ Other _____

Cleaner's Overall Performance: (Rate the following 1 - 5, 1= very poor - 5 = very good)

Appearance: ☐ Comments:_____

Location: ☐ Comments:_____

Maintenance: ☐ Comments:_____

Performance: ☐ Comments:_____

Other comments: _____

_____

_____

_____

Section 7 – Troubleshooting

Problem	Possible Cause	Possible Solutions
Poor cleaning performance	Cleaner under-tensioned	Adjust to correct tension – see spring length chart
	Cleaner over-tensioned	Adjust to correct tension – see spring length chart
	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension
	Cleaner blade worn or damaged	Replace cleaner blade
Rapid Blade Wear	Tension on cleaner too high/low	Adjust to correct tension – see spring length chart
	Cleaner not located correctly	Check cleaner location for correct dimensions
	Blade attack angle incorrect	Check cleaner location for correct dimensions
	Material too abrasive for blade	Option: switch to alternate cleaner with metal blades
	Mechanical splice damaging blade	Repair, skive or replace splice
Center wear on blade (smile effect)	Blade wider than material path	Replace blade with width to match material path
	Tension on cleaner too high/low	Adjust to correct tension – see spring length chart
Unusual wear or damage to blade	Mechanical splice damaging blade	Repair, skive or replace splice
	Belt damaged or ripped	Repair or replace belt
	Cleaner not correctly located	Verify "C" dimension, relocate to correct dimension
	Damage to pulley or pulley lagging	Repair or replace pulley
Vibration or noise	Cleaner not located correctly	Verify "C" dimension, relocate to correct dimension
	Blade attack angle incorrect	Verify "C" dimension, relocate to correct dimension
	Cleaner running on empty belt	Use a spray pole when the belt is empty
	Cleaner tension too high/low	Adjust to correct tension or slight adjust to diminish
	Cleaner locking bolts not secure	Check and tighten all bolts and nuts
	Cleaner not square to head pulley	Verify "C" dimension, relocate to correct dimension
	Material buildup in chute	Clean up build-up on cleaner and in chute
Cleaner being pushed away from pulley	Cleaner tension not set correctly	Ensure correct tension/increase tension slightly
	Sticky material is overburdening cleaner	Increase tension; replace with cleaner with metal tips; replace with larger size cleaner
	Cleaner not set up correctly	Confirm location dimensions are equal on both sides

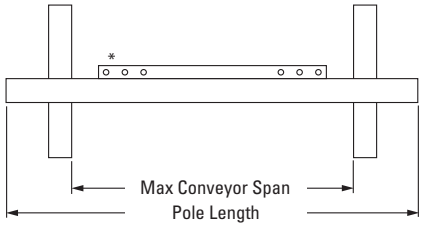
Section 8 – Specifications and CAD Drawings

8.1 Specs and Guidelines

Pole Length Specifications

CLEANER SIZE		POLE LENGTH		MAXIMUM CONVEYOR SPAN	
in.	mm	in.	mm	in.	mm
12	300	42	1050	37	925
18	450	48	1200	43	1075
24	600	54	1350	49	1225
30	750	60	1500	55	1375
36	900	66	1650	61	1525
42	1050	72	1800	67	1675
48	1200	78	1950	73	1825
54	1350	88	2200	83	2075
60	1500	94	2350	89	2225

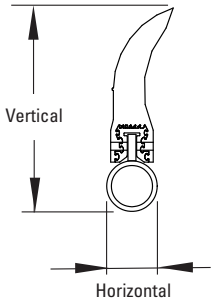
Pole Diameter – 2-3/8" (60 mm)



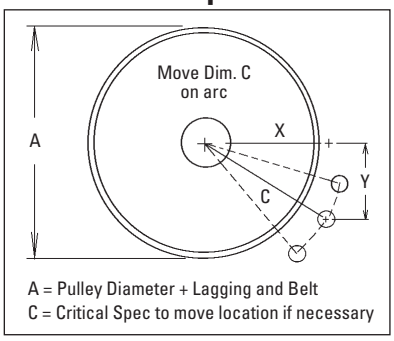
*Each pole size can be used with a blade size either belt width minus 2" (50 mm) or 8" (200 mm).

Clearance Guidelines for Installation

HORIZONTAL CLEARANCE REQUIRED		VERTICAL CLEARANCE REQUIRED	
in.	mm	in.	mm
4	100	9 1/2	238



Pole Location Specs

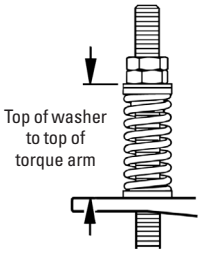


A = Pulley Diameter + Lagging and Belt
C = Critical Spec to move location if necessary

EST Spring Length Chart

Blade Width		Purple Springs		White Springs		Gold Springs	
in.	mm	in.	mm	in.	mm	in.	mm
10	250	5 5/8	143	6 3/8	162	N/A	N/A
16	400	5	127	6 1/8	156	N/A	N/A
22	550	4 3/8	111	6	152	N/A	N/A
28	700	3 7/8	98	5 7/8	149	N/A	N/A
34	850	N/A	N/A	5 5/8	143	6 1/8	156
40	1000	N/A	N/A	5 1/2	140	6	152
46	1150	N/A	N/A	5 1/4	133	5 7/8	149
52	1300	N/A	N/A	5 1/8	130	5 7/8	149
58	1450	N/A	N/A	5	127	5 3/4	146
64	1600	N/A	N/A	4 3/4	121	5 5/8	143

Shading indicates preferred spring option.



Pole Location Chart

A		X		Y		C	
in	mm	in	mm	in	mm	in	mm
10	250	3	74	9	230	9 1/2	242
11	275	3 3/4	92	9	230	9 3/4	248
12	300	4 3/8	108	9	230	10	254
13	325	5 3/8	131	9	230	10 1/2	265
14	350	5 7/8	146	9	230	10 3/4	273
15	375	6 3/8	166	9	230	11 1/4	284
16	400	7 1/8	179	9	230	11 1/2	291
17	425	7 7/8	195	9	230	12	301
18	450	8 1/4	207	9	230	12 1/4	309
19	475	9	223	9	230	12 3/4	320
20	500	9 3/8	235	9	230	13	329
21	525	10	249	9	230	13 1/2	339
22	550	10 3/4	266	9	230	14	352
23	575	11 3/8	283	9	230	14 1/2	365
24	600	12	299	9	230	15	377
25	625	12 5/8	314	9	230	15 1/2	390
26	650	13 1/4	330	9	230	16	402
27	675	13 7/8	346	9	230	16 1/2	415
28	700	14 3/8	360	9	230	17	427
29	725	15	374	9	230	17 1/2	439
30	775	15 5/8	389	9	230	18	452
31	775	16 1/8	403	9	230	18 1/2	464
32	825	16 3/4	417	9	230	19	477
33	825	17 1/4	432	9	230	19 1/2	489
34	850	17 7/8	446	9	230	20	501
35	875	18 3/8	460	9	230	20 1/2	514
36	900	19	474	9	230	21	526

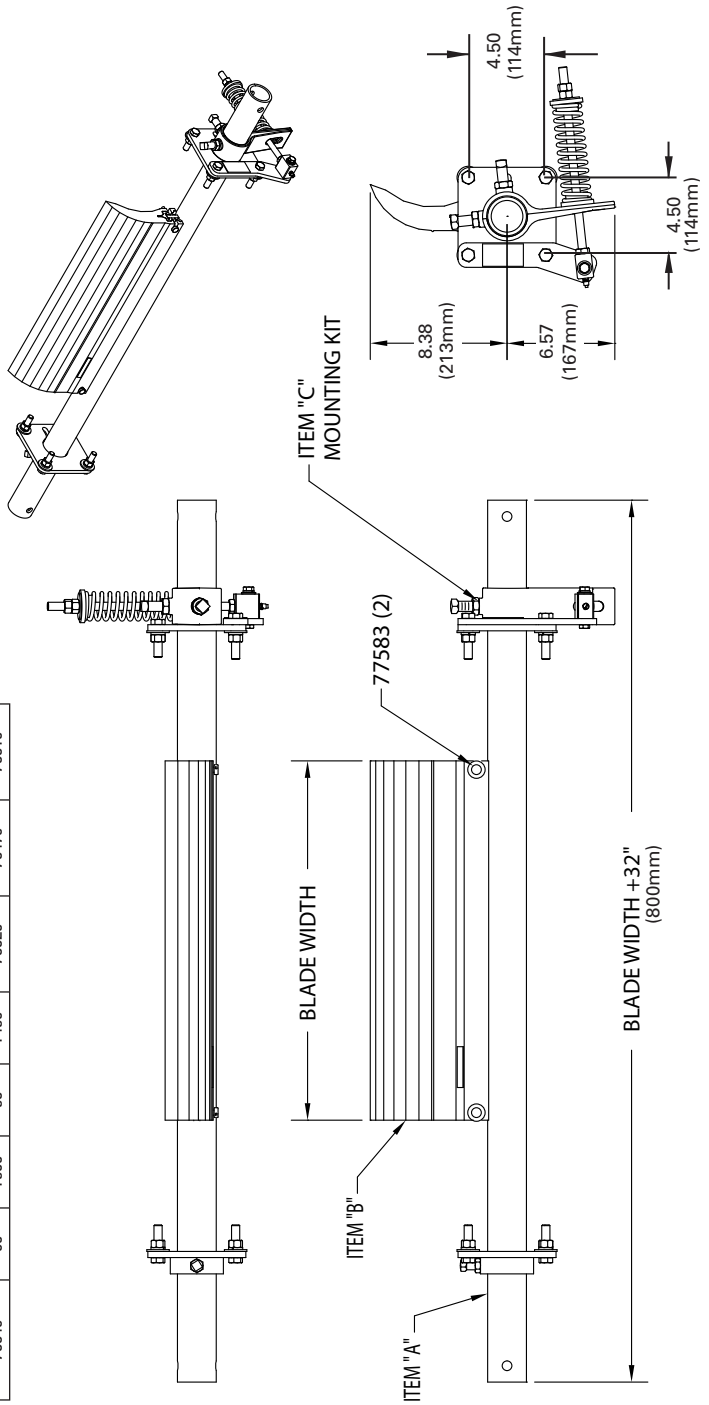
Specifications:

- Maximum Belt Speed .....700 FPM (3.5 m/s)
- Temperature Rating .....-30 to 180°F (-35 to 82°C)
- Minimum Pulley Diameter.....10" (250 mm)
- Blade Height.....7-1/4" (185 mm)
- Usable Blade Wear Length.....4" (100 mm)
- Blade Material .....Polyurethane (chemical resistant/food grade)
- Available for Belt Widths .....12 to 60" (300 to 1500 mm)
- CEMA Cleaner Rating .....Class 2

Section 8 – Specifications and CAD Drawings

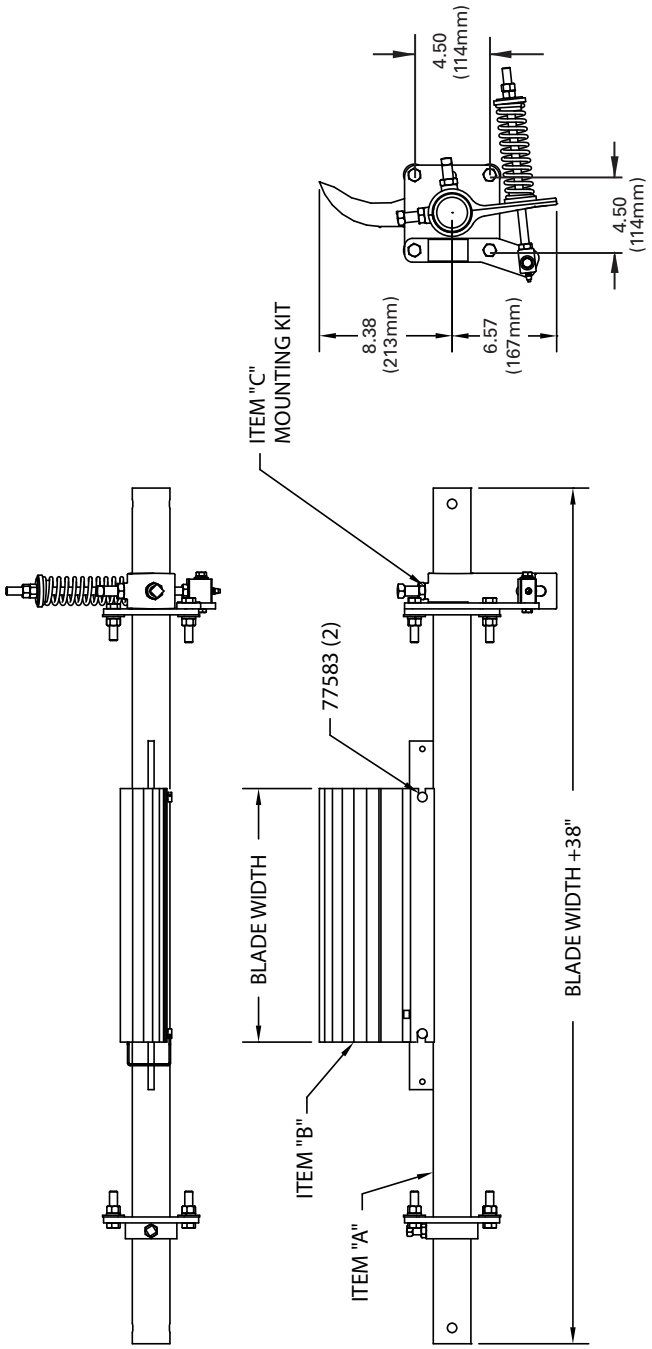
8.2 CAD Drawing - EZP1 Stainless Steel - Belt Width Minus 2" (50 mm)

ASSEMBLY NUMBER	BELT WIDTH		BLADE WIDTH		ITEM "A"	ITEM "B"	ITEM "C"
	in.	mm	in.	mm			
78838	12	300	10	250	78812	78471	78808
78839	18	450	16	400	78813	78472	78808
78840	24	600	22	550	78814	78473	78808
78841	30	750	28	700	78815	78474	78808
78842	36	900	34	850	78816	78475	78809
78843	42	1050	40	1000	78817	78476	78809
78844	48	1200	46	1150	78818	78477	78809
78845	54	1350	52	1300	78819	78478	78809
78846	60	1500	58	1450	78820	78479	78810



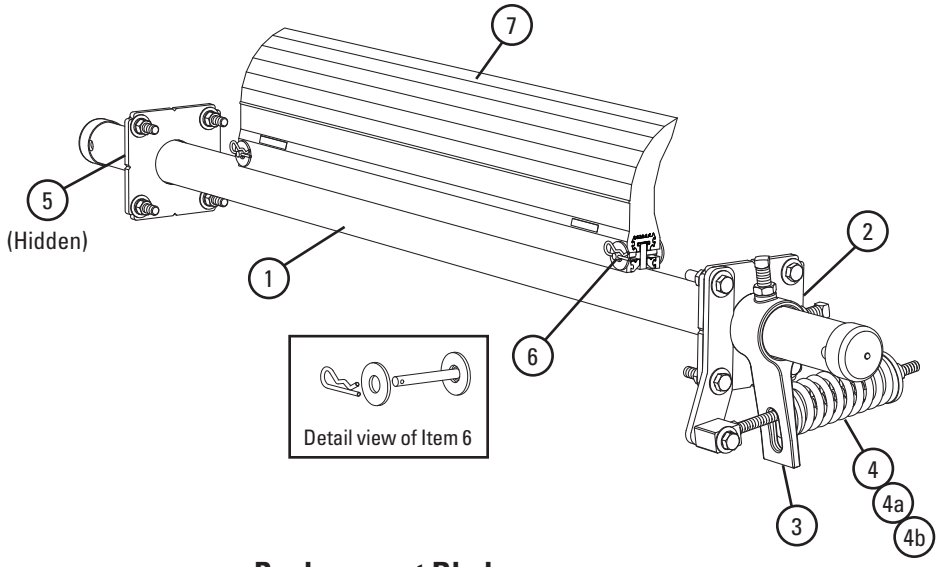
8.3 CAD Drawing - EZP1 Stainless Steel - Belt Width Minus 8" (200 mm)

ASSEMBLY NUMBER	BELT WIDTH		BLADE WIDTH		ITEM "A"	ITEM "B"	ITEM "C"
	in.	mm	in.	mm			
78924	18	450	10	250	78813	78471	78808
78925	24	600	16	400	78814	78472	78808
78926	30	750	22	550	78815	78473	78808
78927	36	900	28	700	78816	78474	78808
78928	42	1050	34	850	78817	78475	78809
78929	48	1200	40	1000	78818	78476	78809
78930	54	1350	46	1150	78819	78477	78809
78931	60	1500	52	1300	78820	78478	78809



Section 9 – Replacement Parts

9.1 Replacement Parts List



Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
1	12" (300mm) SS Pole	EZP1P12-S/S	78812	17.4
	18" (450mm) SS Pole	EZP1P18-S/S	78813	20.3
	24" (600mm) SS Pole	EZP1P24-S/S	78814	22.7
	30" (750mm) SS Pole	EZP1P30-S/S	78815	26.5
	36" (900mm) SS Pole	EZP1P36-S/S	78816	30.4
	42" (1050mm) SS Pole	EZP1P42-S/S	78817	32.7
	48" (1200mm) SS Pole	EZP1P48-S/S	78818	35.3
	54" (1350mm) SS Pole	EZP1P54-S/S	78819	39.2
	60" (1500mm) SS Pole	EZP1P60-S/S	78820	43.3
	72" (1800mm) SS Pole	EZP1P72-S/S	78821	48.2
2	SS Mounting Plate Kit* (2 ea.)	EZP1MPK-S/S	78923	7.7
3	SS Torque Arm Kit* (1 ea.)	ESTAK-EST-S/S	78849	3.6
4	SS Tension Spring – Purple	QMTS-P-S/S	77450	1.0
4a	SS Tension Spring – White	QMTS-W-S/S	77451	1.2
4b	SS Tension Spring – Gold	QMTS-G-S/S	77452	1.4
5	SS Pole Lock* (1 ea.)	EZP1PL-S/S	78848	1.1
–	SS EST Tensioner – Purple* (incl. (1) ea. items 2, 3, 4)	EST-P-S/S	78808	7.7
–	SS EST Tensioner – White* (incl. (1) ea. items 2, 3, 4a)	EST-W-S/S	78809	7.9
–	SS EST Tensioner – Gold* (incl. (1) ea. items 2, 3, 4b)	EST-G-S/S	78810	8.1
6	Stainless Steel Blade Pin Kit* (1 ea.)	MSPBP	107852	0.1

*Hardware Included
Lead time: 3 weeks

Replacement Blades

REF	BLADE WDITH in.	BLADE WDITH mm	ORDERING NUMBER	ITEM CODE	WT. LBS.
7	10	250	CRB-W10	78471	4.8
	16	400	CRB-W16	78472	7.6
	22	550	CRB-W22	78473	10.4
	28	700	CRB-W28	78474	13.2
	34	850	CRB-W34	78475	16.2
	40	1000	CRB-W40	78476	19.1
	46	1150	CRB-W46	78477	21.9
	52	1300	CRB-W52	78478	24.8
	58	1450	CRB-W58	78479	27.6

Lead time: 1 working day

All ingredients used in the polyurethane formulation of this blade comply with the relevant requirements of 21 CFR (FDA Code of Federal Regulations) for use in repeated bulk dry food applications.

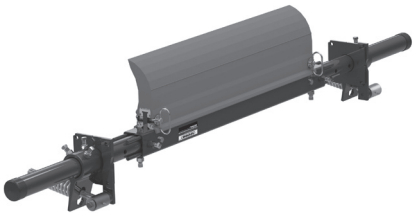
Spring Tensioner Selection Chart

CLEANER BLADE WIDTH	78808 EST-P-S/S	78809 EST-W-S/S	78810 EST-G-S/S
ConShear™ 10–28" (250–700mm)	X		
ConShear™ 34–52" (850–1300mm)		X	
ConShear™ 58–70" (1450–1750mm)			X

Section 10 – Other Flexco Conveyor Products

Flexco provides many conveyor products that help your conveyors to run more efficiently and safely. These components solve typical conveyor problems and improve productivity. Here is a quick overview on just a few of them:

MMP Precleaner

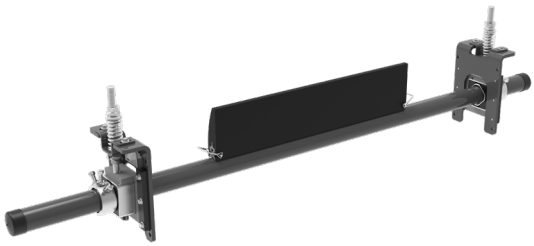


- Extra cleaning power right on the head pulley
- A 10" (250 mm) TuffShear™ blade provides increased blade tension on the belt to peel off abrasive materials
- The unique Visual Tension Check™ ensures optimal blade tensioning and quick, accurate retensioning
- Easy to install and simple to service

DRX Impact Beds

- Exclusive Velocity Reduction Technology™ in order to better protect the belt
- Slide-Out Service™ gives direct access to all impact bars for change-out
- Impact bar supports for longer bar life
- 4 models to custom fit to the application

MDWS DryWipe Secondary Cleaner

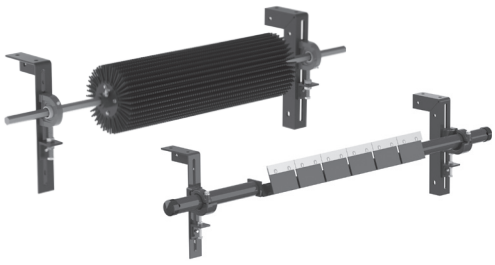


- Wipes the belt dry as final cleaner in system
- Automatic blade tensioning to the belt
- Easy, visual blade tension check
- Simple, one-pin blade replacement

PT Max™ Belt Trainer

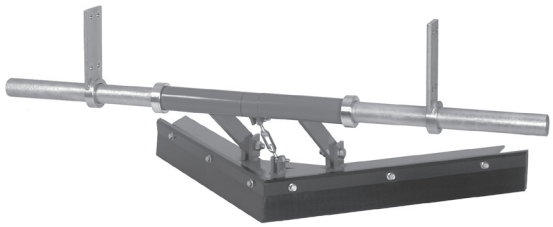
- Patented "pivot & tilt" design for superior training action
- Dual sensor rollers on each side to minimize belt damage
- Pivot point guaranteed not to freeze up
- Available for topside and return side belts

Flexco Specialty Belt Cleaners



- "Limited space" cleaners for tight conveyor applications
- High Temp cleaners for severe, high heat applications
- A rubber fingered cleaner for chevron and raised rib belts
- Multiple cleaner styles in stainless steel for corrosive applications

Belt Plows



- A belt cleaner for the tail pulley
- Exclusive blade design quickly spirals debris off the belt
- Economical and easy to service
- Available in vee or diagonal models

Visit **www.flexco.com** for other Flexco locations and products, or to find an authorized distributor.